

Duplexer

Band Pass

450-470MHz

DP4547-0804-32



RFI's range of compact multi-resonator milled aluminium band pass duplexers are ideal for use where space is restricted or at a premium. The relatively broad pass band characteristic, good duplex port to port isolation, high power and multi carrier capability make these ideal duplexers for either single carrier or combined multicarrier systems. The temperature stable resonators provide a wide operational temperature range ensuring important electrical specifications such as insertion loss and Tx port to Rx port isolation are maintained.

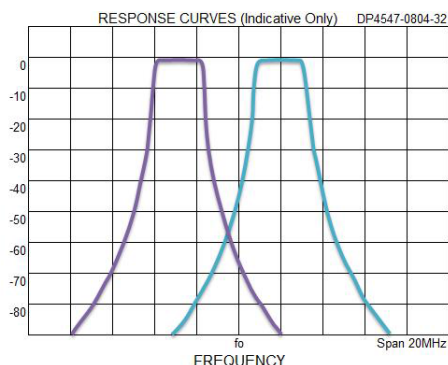
Features:

- Compact temperature stable design
- $\leq 2\text{MHz}$ Pass band Low & High ports
- 100W (CW) Power rating
- Low insertion loss ripple
- 2RU 19" Rack mount front panel
- 5-10MHz Tx to Rx Duplex split



Specifications

Model Number	DP4547-0804-32
Type	Band Pass
Tunable frequency range - Low Pass Port	450-465MHz
Tunable frequency range - High Pass Port	455-470MHz
Pass Band - High and Low Ports	$\leq 2\text{MHz}$
Tx to Rx Separation - typical	5-10MHz
Low & High Pass Port Insertion Loss - typical.	$\leq 1.75\text{dB}$
Low & High Pass Port - ripple	$\leq 0.6\text{dB}$
Port to Port Isolation - typical	$\geq 75\text{dB}$
Input Power (CW) - max	100W
Impedance	50 Ω
Return Loss / VSWR	$\geq 19\text{dB}$ / $\leq 1.25:1$
Termination Connectors	N (F)
Mounting Option	2RU 19" Rack mount front panel
Finish	Painted Black
Duplexer only dimensions (mm/inches excl connectors)	H 87 (3.4") x W 277 (10.9") x D 97 (3.8")
Duplexer with panel dimensions (mm/inches excl connectors)	H 89 (3.5") x W 483 (19") x D 97 (3.8")
Weight - approx	3.2kg / 7.04lbs
Temperature Range	-30° to +60° C / -22° to +140° F



Model Number	Description
DP4547-0804-32	Duplexer B.P 450-470MHz, 2MHz PB, 5-10MHz T/R, 100W, 2RU